

NEW COMBINATIONS IN *SENEGALIA* AND *VACHELLIA*
(FABACEAE: MIMOSOIDEAE)

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ABSTRACT

Morphological and genetic differences separating the subgenera of *Acacia s.l.* and molecular evidence that the genus *Acacia s.l.* is polyphyletic necessitate transfer of species from *Acacia* subgenus *Aculeiferum* Vassal to *Senegalia* and from *Acacia* subgenus *Acacia* to *Vachellia*, resulting in six new combinations in the genus *Senegalia*: *S. angico* (Mart. in Colla) Seigler & Ebinger, **comb. nov.**; *S. brevispica* (Harms) Seigler & Ebinger, **comb. nov.**; *S. galpinii* (Burt Davy) Seigler & Ebinger, **comb. nov.**; *S. incerta* (Hoehne) Seigler & Ebinger, *S. mellifera* (Vahl) Seigler & Ebinger, **comb. nov.**; *S. schweinfurthii* (Brenan & Excell) Seigler & Ebinger **comb. nov.**; and five in *Vachellia*: *V. erioloba* (E. Mey.) Seigler & Ebinger, **comb. nov.**; *V. grandicornuta* (Gerstner) Seigler & Ebinger, **comb. nov.**; *V. haematoxylon* (Willd.) Seigler & Ebinger, **comb. nov.**; *V. hockii* (De Wild) Seigler & Ebinger, **comb. nov.**; and *V. nebrownii* (Burt Davy) Seigler & Ebinger, **comb. nov.** *Phytologia* 92(1): 92-95 (April, 2010).

KEY WORDS: *Acacia sensu lato*, Fabaceae, Mimosoideae, *Senegalia*, *Vachellia*.

Morphological and genetic differences separating the subgenera of *Acacia s.l.* and molecular evidence that the genus *Acacia s.l.* is polyphyletic necessitate recognition of segregate genera and transfer of many *Acacia* species to these genera. A large number of

species of *Acacia* subgenus *Aculeiferum* must be referred to *Senegalia* Rafinesque and some of *Acacia* subgenus *Acacia* to *Vachellia* Wight & Arnott. For the following 11 taxa, this results in new combinations, in either the genus *Senegalia* or *Vachellia*:

1. **SENEGALIA ANGICO** (Mart. in Colla) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia angico* Mart. in Colla, Herb. pedem. 2: 268. 1834. – TYPE: BRAZIL. RIO GRANDE DO SUL (Martius 1843), Villa Nova (holotype: BM; isotype: P, probable isotype K). The situation is confusing because Bentham (1876) considered *Acacia angico* Martius to be a synonym of *Piptadenia rigida* Benth., J. Bot. (Hooker) 4: 338. 1842. [now recognized as *Parapiptadenia rigida* (Benth.) Brenan, Kew Bull. 17: 228. 1963.] based on Martius (1843).
2. **SENEGALIA BREVISPICA** (Harms) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia brevispica* Harms, Notizbl. Bot. Gart. Berl. 8: 370. 1923. – TYPE: TANZANIA: Lushoto Dist., Kitivo, *Holst 606* (holotype: B, probably destroyed; BM, drawing) (Ross 1979).
3. **SENEGALIA GALPINII** (Burt Davy) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia galpinii* Burt Davy, Bull. Misc. Inform. Kew. 326. 1922. – TYPE: SOUTH AFRICA. TRANSVAAL: banks of the Bad-zyn-loop River, Mosdene Estate, Naboomspruit, 19 Sep 1920, *Galpin 483M* (holotype: K; isotypes: BM, GRA, PRE) (Ross 1979).
4. **SENEGALIA INCERTA** (Hoehne) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia incerta* Hoehne, Com. lin. telegr., Bot., pt. 8: 22. (pl. 135). 1919. – TYPE: BRAZIL. MATTOGROSSO: em Copipo da ponte, Cuyaba, *F. C. Hoehne 2534* and *2535* (syntypes: possibly at R or RB). The numbers 2534 and 2535 are for the Comissão de Linhas Telegraficas Estratégicas de Matto Grosso ao Amazonas – CLTE and are not personal collection numbers (M. C. Mamede, personal communication).

5. **SENEGALIA MELLIFERA** (Vahl) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia mellifera* (Vahl) Benth. in Hook., Lond. J. Bot. 1: 507. 1842. – TYPE: ARABIA. Surdud and elsewhere, *Forsskal s.n.* (holotype: C) (Ross 1979).
6. **SENEGALIA SCHWEINFURTHII** (Burt Davy) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia schweinfurthii* Brenan & Exell, Bol. Soc. Brot., ser. 2. 31: 128. t. 1, fig. E. 1957. – TYPE: SUDAN: Gubbiki. *Schweinfurth 2206* (holotype: BM; isotypes: HT, K, P, Z) (Ross 1979).
7. **VACHELLIA ERIOLOBA** (E. Mey.) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia erioloba* E. Mey., Comm. 1: 171. 1836. – TYPE: SOUTH AFRICA. TRANSVAAL: Namaqualand, Wolmaransstad Dist. Between Kommandodrif and Makwassie, *J. W. Morris 1042* [neotype: K; isotype: PRE] (Ross 1979).
8. **VACHELLIA GRANDICORNUTA** (Gerstner) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia grandicornuta* Gerstner, J. S. Afr. Bot. 4: 55. Fig. 1. 1938. – TYPE: SOUTH AFRICA. NATAL: 1) flowered at Emkunuzana and Mkuzi Drift between Nongoma and Magudu, 6 Jan 1936, *Gerstner 2870* and 2) fruits found at same places and at lower Pongola, 13 May 1936, *Gerstner 2870* (syntypes: BOL) (Ross 1979).
9. **VACHELLIA HAEMATOXYLON** (Willd.) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia haematoxylon* Willd., Enum. Pl. 1056. 1809. – TYPE: SOUTH AFRICA. CAPE PROVINCE: *Lichtenstein s.n.* (holotype: B-Willd.) (Ross 1979).
10. **VACHELLIA HOCKII** (De Wild) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia hockii* De Wild, Reprim nov. Spec. Regni veg. 11: 502. 1913. – TYPE: ZAIRE. KATANGA: Luafu valley, *Hock s.n.* (holotype: BR) (Ross 1979).

11. **VACHELLIA NEBROWNII** (Burt Davy) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia nebrownii* Burt Davy, Kew Bull. 1921: 50. 1921. – TYPE: BOTSWANA: Kwebe Hills, Mrs. E. J. Lugard 14 & 16 (syntypes: K) (Ross 1979).

ACKNOWLEDGEMENTS

The authors wish to thank several colleagues for advice concerning questions of nomenclature and general taxonomic advice. Among these are: Fred Barrie, J. Lee Crane, K. N. Gandhi, Bruce R. Maslin, Paul Sørensen, Gordon Tucker, Paul Wilson, and James Zarucchi. The views and conclusions (and errors) in this manuscript are our own and do not necessarily reflect any of their judgments. We wish to acknowledge support by the National Science Foundation (NSF DEB 04-15803) and by the American Philosophical Society (1992).

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